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Attorney Docket

BAI525-988/04450

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: JESUS MATEY)
SERIAL NO: 10/099,899)
FILED: 03/14/2002)
FOR: TELEVISION SYSTEM)
ART UNIT: 2614)
EXAMINER: UNKNOWN)

TRANSMITTAL OF PRIORITY DOCUMENTS

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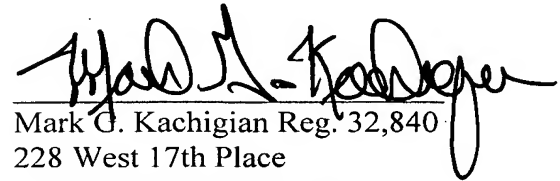
Enclosed herewith is a certified copy of British Application No. 0106395.7 filed 15 April 2001 for which the above-identified patent application claims priority.

If, for any reason, this priority document is not acceptable, please inform the undersigned as soon as possible.

Respectfully Submitted

HEAD, JOHNSON & KACHIGIAN

Date: Feb. 9, 2004


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INVESTOR IN PEOPLE

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Signed

Dated 19th March 2002



15 MAR 2001

Request for grant of a patent

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THE PATENT OFFICE

A

15 MAR 2001

The Patent Office

Cardiff Road
 Newport

Gwent NP9 1RH

1. Your reference

AT-G31119

2. Patent application number
 (The Patent Office will fill in this part)

NEWPORT

0106395.7

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Pace Micro Technology Plc

Victoria Road
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BD18 3LE

15 MAR 01 E614016-2 D00346

P01/7700 0.00-0106395.7

England

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

07588569001

4. Title of the invention

Television System

5. Name of your agent (if you have one)

Bailey Walsh & Co.

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

5, York Place
 Leeds
 LS1 2SD

Patents ADP number (if you know it)

224001 ✓

6. If you are declaring priority from one or more earlier patent applications, give the and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number
 (if you know it)

Date of filing
 (day / month / years)

7. If this application is divided or otherwise derived from an earlier UK application, the earlier application

Number of earlier application

Date of filing
 (day / month / years)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer "Yes" if:

Yes

- a) any applicant named in part 3 is not an inventor, or
 - b) there is an inventor who is not named as an applicant, or
 - c) any named applicant is a corporate body
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Description 5

Claim(s)

Abstract

Drawing(s)

10. If you are also filing any of the following, state how many of each item.

Priority Documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination and search (*Patents Form 9/77*)

Request for substantive examination (*Patents Form 10/77*)

Any other documents
(Please specify)

11. I/We request the grant of a patent on the basis of this application

Signature

Date

Ben Jones

14.03.01

12. Name and daytime telephone number of person to contact in the United Kingdom
A Tomkinson
0113 2433824

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Television System

This invention relates to a television system comprising a broadcast data receiver connected to a display screen. The broadcast data receiver receives digital data in the form of audio, video and/or auxiliary data received from a broadcaster at a remote location. The broadcast data receiver processes the data and provides video and/or audio for viewing on the display screen and listening via speakers. Auxiliary data is typically used to provide an electronic programme guide (EPG) showing the available programmes for viewing by a user at a particular time.

It is known to be able to provide the video display on the display screen in a number of different display formats, such as having the display in a normal 4:3 format, a widescreen 16:9 format, letter box format, centre cut out format and/or the like. These different types of video display formats, which allow adjustment of the size and/or shape of the video display, are typically selectable by the user from a function selections menu and/or page. Conventionally the user is required to select a particular format from a menu page and then tune to the channel for display of the video display in the selected format.

A problem with the conventional method of selecting a particular video display format is that a user may not know what each of the different formats mean and how each format alters the appearance of the video display. The user therefore has to typically select each different format in turn and tune the video display to each particular format in order to determine whether the resulting video display size and/or shape is suitable. This is likely to be both time consuming and frustrating for the user. In addition, as the action in the film changes, the size and/or shape of the video display may also change, such that the user may not be able to compare the video display they had prior to selecting

a particular format with the resulting video display after the format selection.

It is therefore an aim of the present invention to provide an improved means for allowing user selection of video display formats.

According to a first aspect of the present invention there is provided a television system including a broadcast data receiver for receiving broadcast data from a remote location via cable, satellite or terrestrial means and processing said data, said data including video data for display on a display screen connected thereto, control means to allow user-selection of one or more functions of the television system and wherein a number of different video display formats are provided for user selection on the display screen and wherein upon selection of a particular format a preview of the resulting video display is displayed in a window on the display screen.

Preferably each different video display format alters the size and/or shape of the resulting video display.

Preferably the preview of the selected display comprises the selected format applied to video data currently being broadcast on a user-selected channel, a broadcaster selected channel, a default or selected video clip, a blank screen and/or the like.

In one embodiment the number of different video display formats are provided in a drop down menu of a Viewing Preference Screen, such as an Electronic Programme Guide (EPG) display.

Preferably the video display formats provided for user selection include any or any combination of a normal (4:3) display, a

widescreen (16:9) display, picture handling, pass through, centre cutout, letterbox and/or the like.

In one embodiment the video display returns to a default video display format each time the television system is switched off and switched on again and/or after a pre-determined period of time.

In an alternative embodiment the video display format chosen by the user is maintained on all video displays until changed by the user.

Thus the present invention provides a means of allowing a user to quickly and easily view the effect of one or more video display formats prior to selecting a particular suitable format for application to a programme/video the user wishes to view.

An embodiment of the present invention will now be described with reference to the following description:

An EPG display is provided with a drop down viewing preference menu, which allows a user to select a number of different functions for adjustment of the audio/video outputs of a current display. The viewing preference display has a Picture In Graphics (PIG) window and a number of selectable fields. One of the options on the display is for changing the format (size and/or shape) of a video display.

The first selectable field on the display requires user selection of the type of the user's television display screen, such as normal (4:3) or widescreen (16:9). The second user selectable field contains a number of different video display shapes and/or sizes including "passthrough", "centre cutout" and "letterbox". The

third user selectable field contains selection of the video output to the television, such as RGB or composite.

The audio video driver of the television set receives the user selected settings and alters the video display in the PIG window on the display screen accordingly. The user can select any number of different combinations from the selectable fields and view the resulting change to the video display in the PIG window. This allows a user to quickly preview a number of possible formats prior to tuning a full video display to a chosen format.

For example, if a user has a 4:3 normal television set and widescreen (16:9) video data is being transmitted to the broadcast data receiver, the user may select:

- 1) Passthrough – all the contents of the 16:9 video display are fitted to the 4:3 screen and the PIG window shows the figures in the display having taller shapes compared to the video data being shown on a 16:9 television set.
- 2) Centre Cutout – the top and the bottom of the widescreen image is displayed at the top and bottom of the screen, whilst maintaining image proportions. The image in the PIG window shows how the video display loses edges at the right and left hand sides of the image.
- 3) Letterbox – the left and right sides of the widescreen image are displayed at the left and right edges of the screen, whilst maintaining the image proportions. The PIG window shows how the video display includes a black margin at the top and bottom of the display, whilst providing the full widescreen video content with the correct shape.

If the user changes the video display format from RGB to composite, the user can determine from the different PIG window displays the difference in quality, colour, graphics and video of the display.

Thus the present invention allows a user to scroll through and preview a number of different video display formats and determine at a glance which of the formats is most suitable for applying to a programme/video display.